

1 / 13

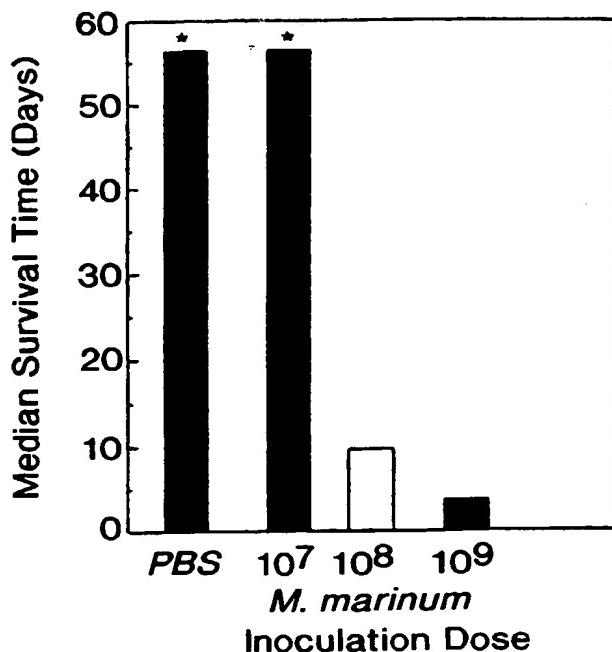


FIG. 1

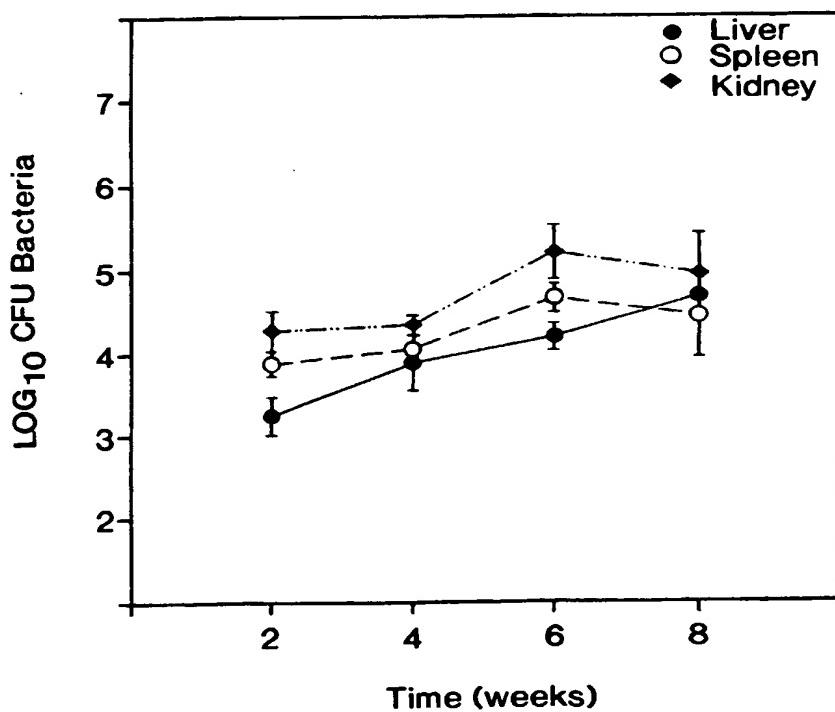


FIG. 2

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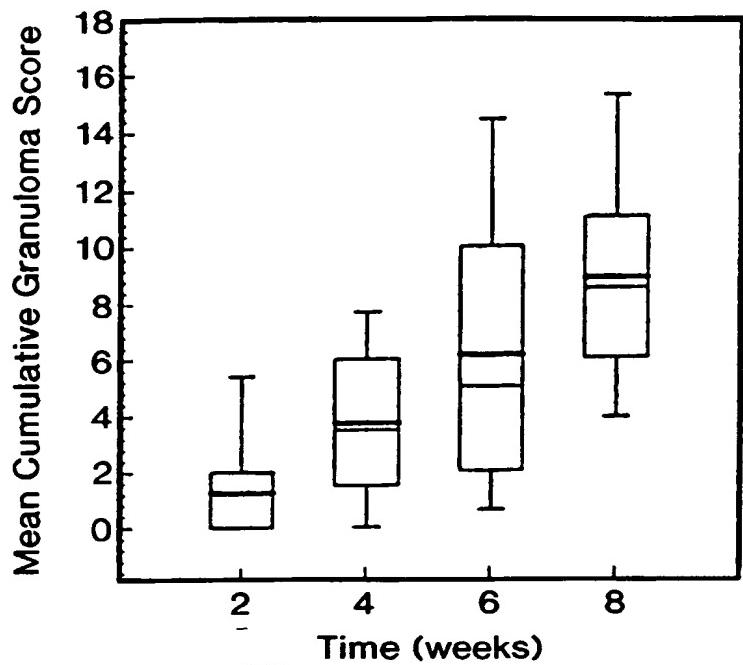


FIG. 3

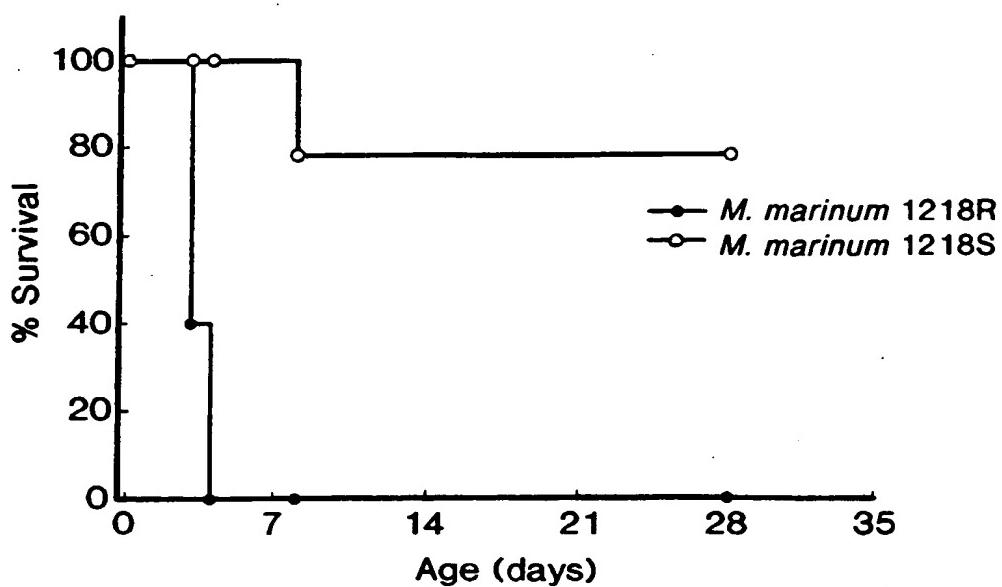
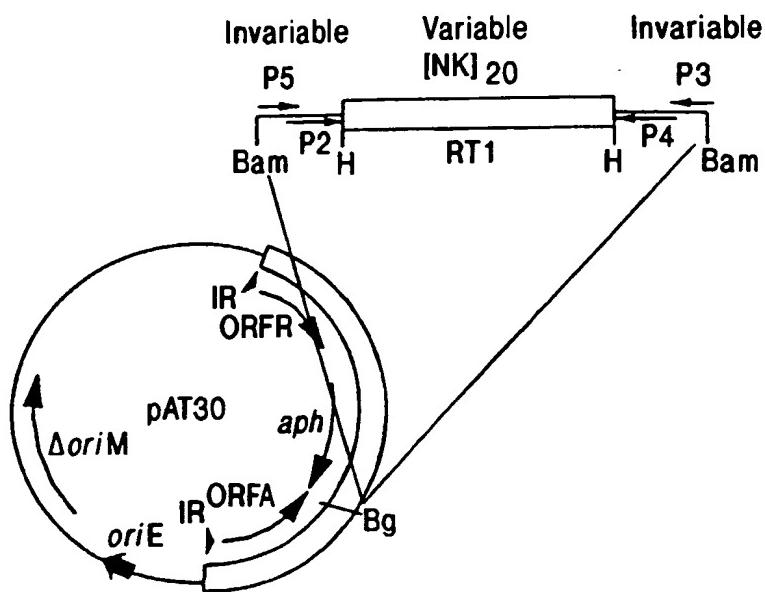
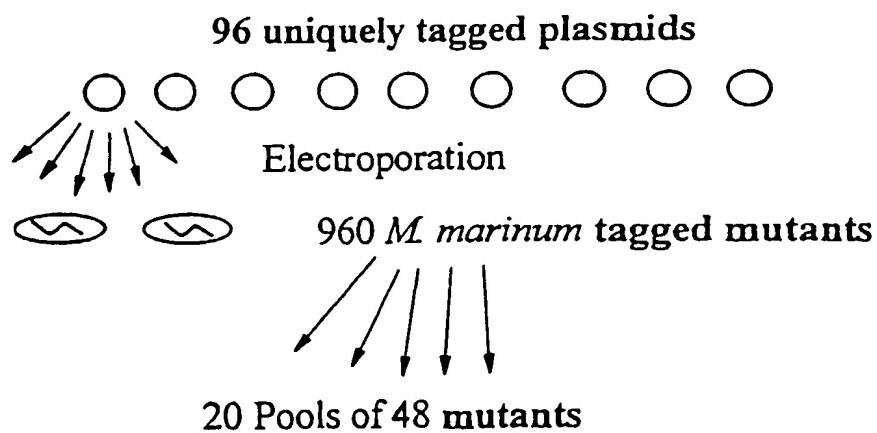


FIG. 4

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**FIG. 5**

Construction of *M. marinum* signature-tagged mutant library

**FIG. 6**

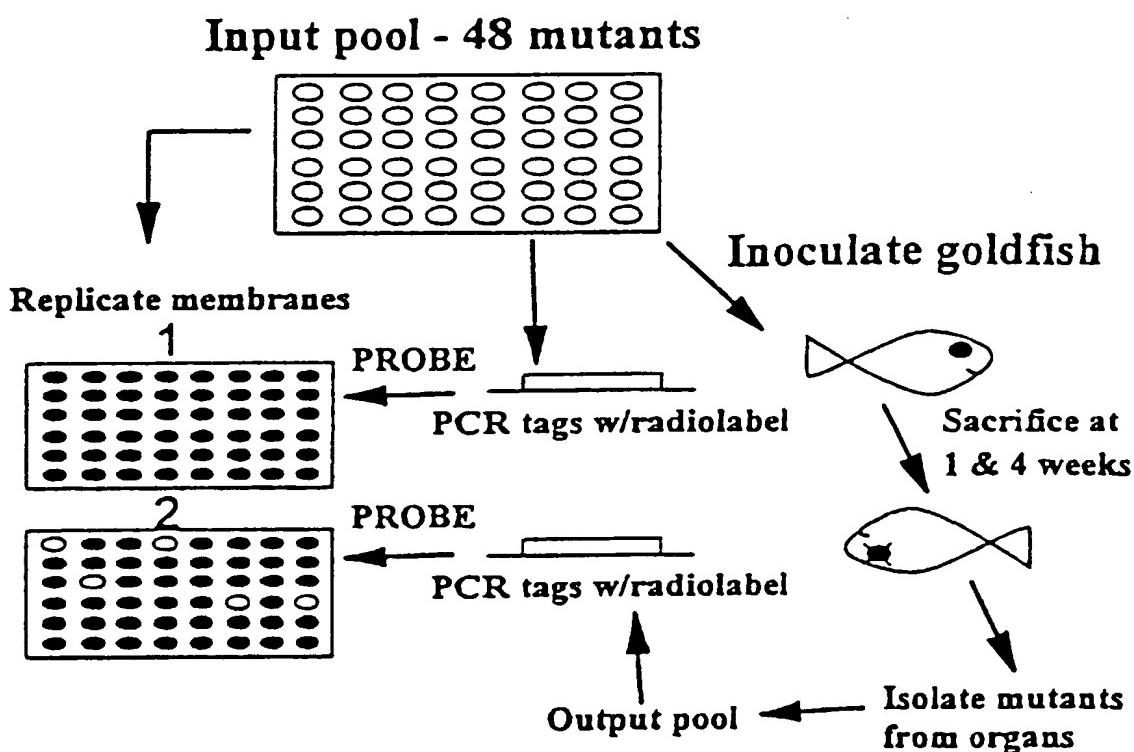


FIG. 7

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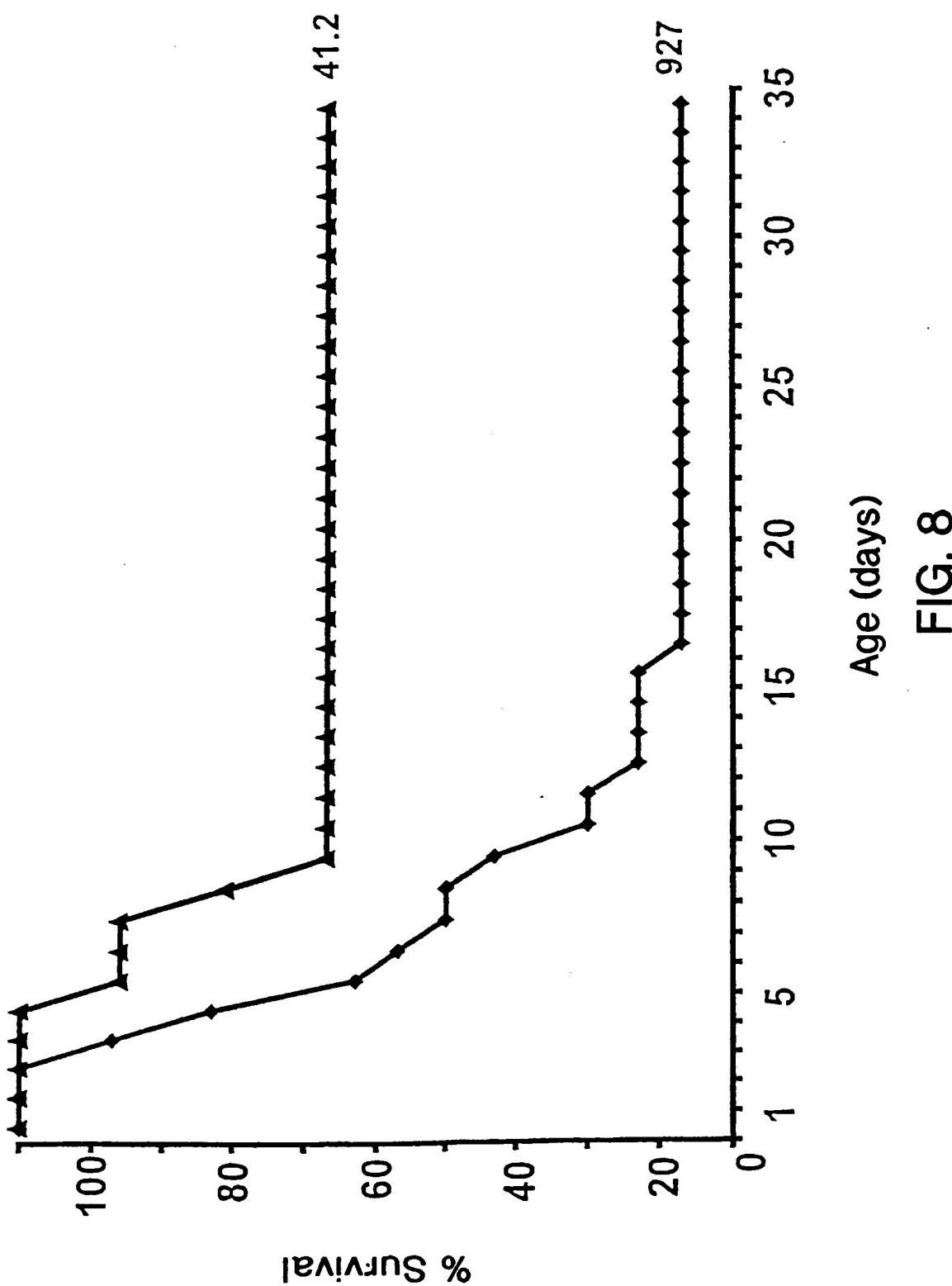


FIG. 8

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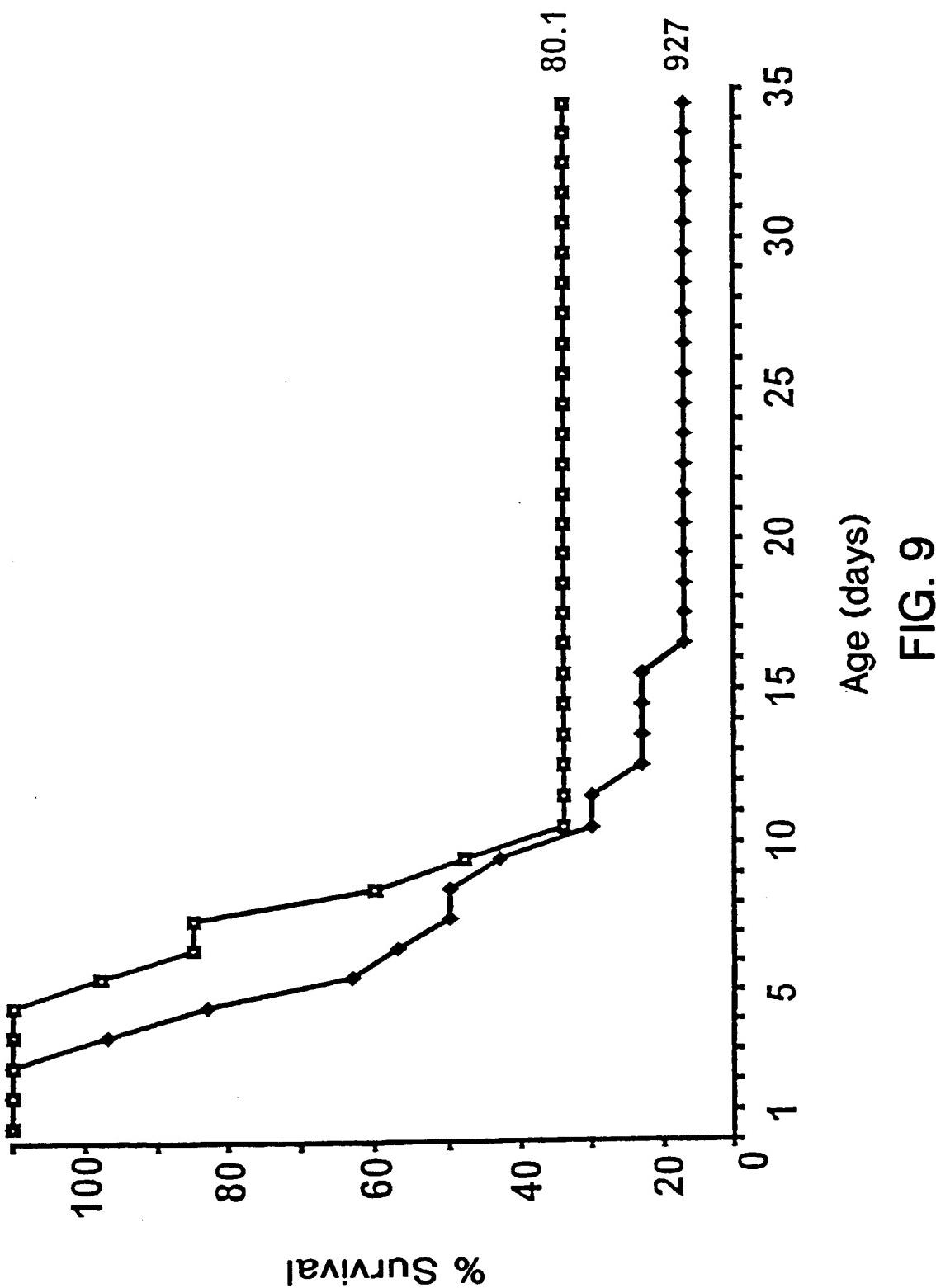


FIG. 9

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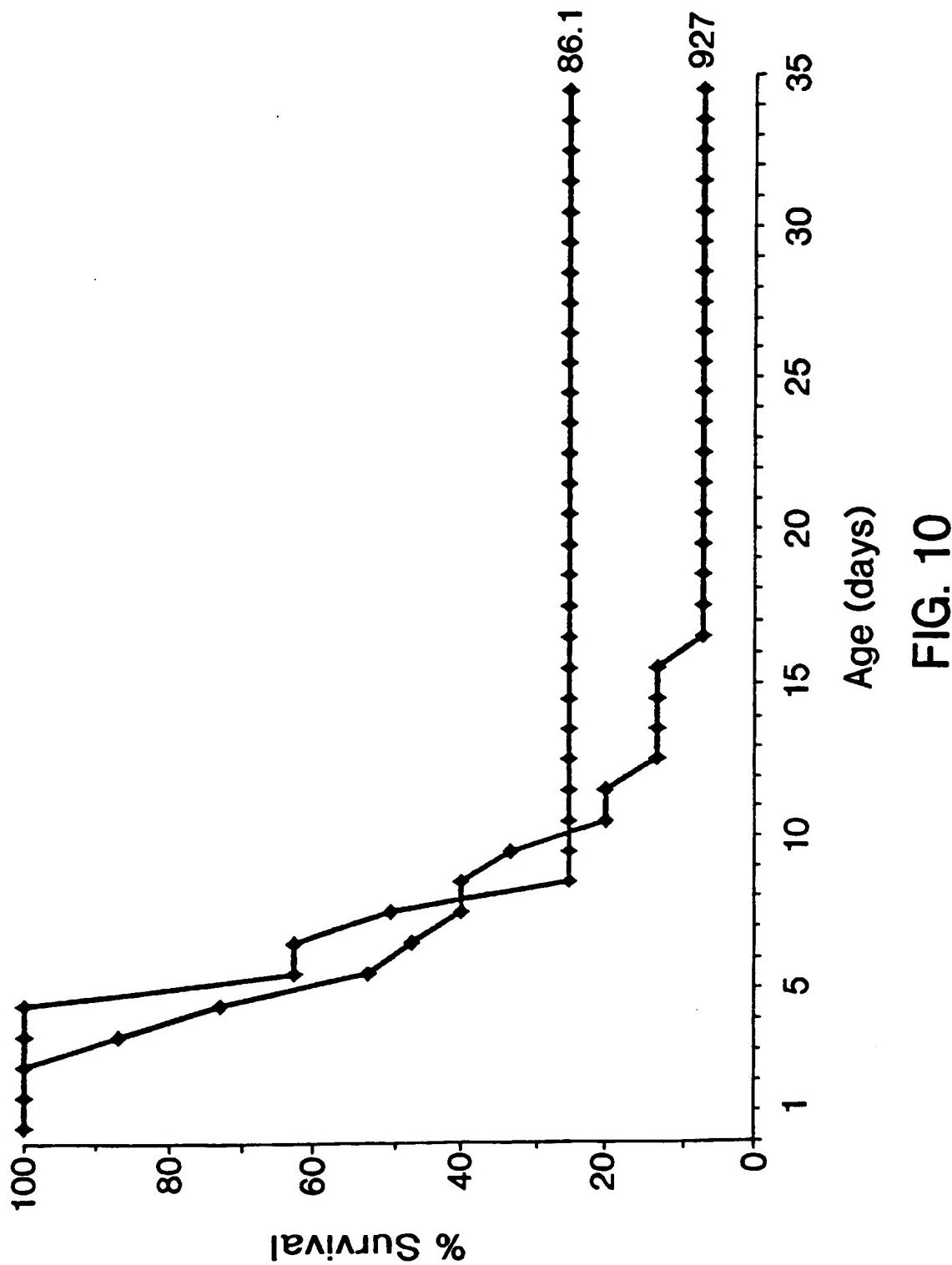
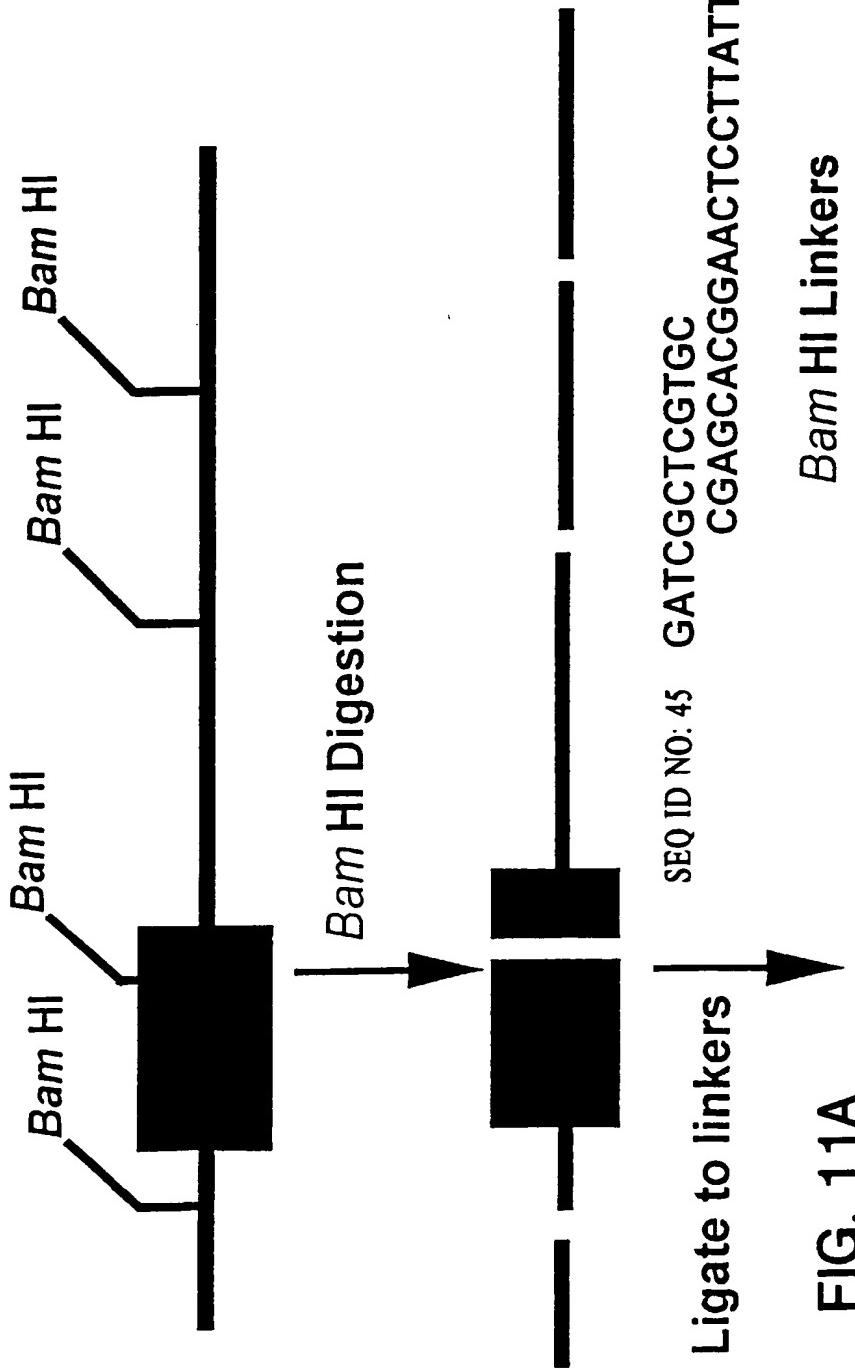


FIG. 10

Amplification of genomic DNA sequences flanking insertion sequences



SUBSTITUTE SHEET (RULE 26)

Ligation-mediated PCR

Amplification

...TTATTCCCTCAAGGCACCGAGGATCC
GATCGCTCGTGC SEQ ID NO: 45

(SEQ ID NO: 46)

CCTAGCGAGGCACGGAACTCCTTATT...
G
CGTGCTCGCTAG

GATCGCTCGTGC
...TTATTCTCAAGGCACGAGGATCC _____ G

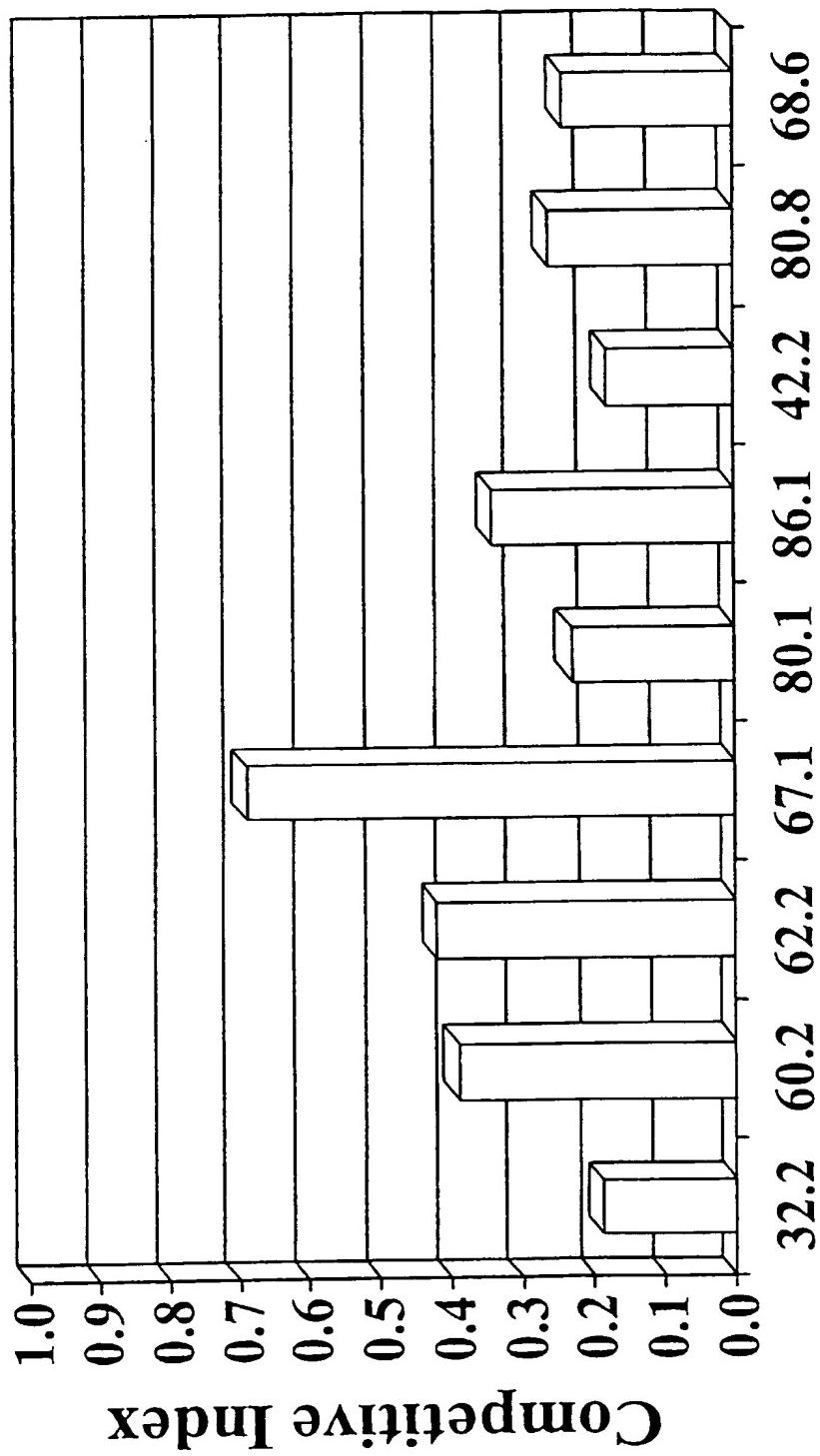
CGTGCTCGCTAG
G — CTTAG CGAGGCACGGAACTCCTTATT...

FIG. 1B

No Amplification

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Competitive Index: Mutant/Wild type



Mutant strain

FIG. 12

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Survival Curve: *M. marinum* Strains in Goldfish

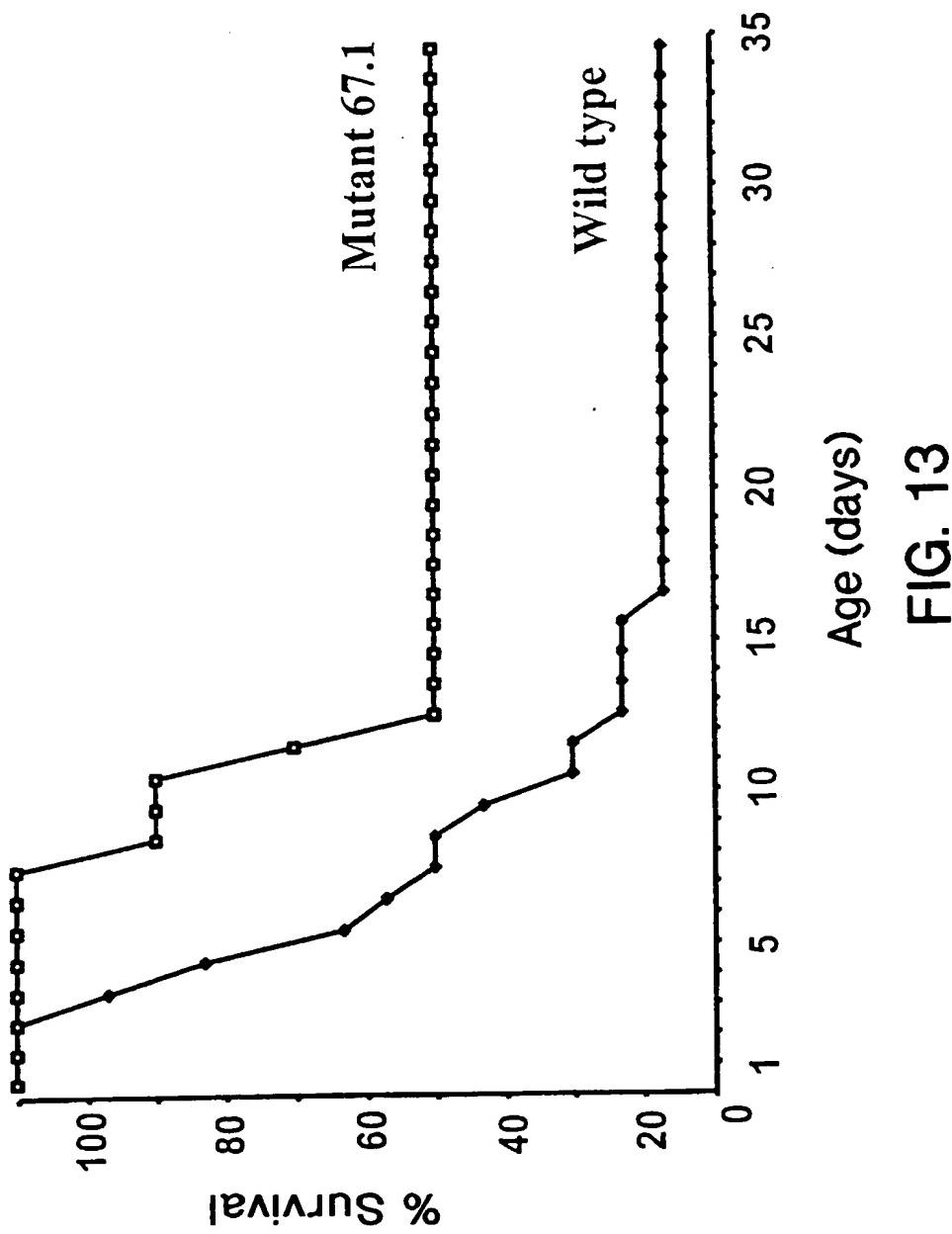


FIG. 13

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Survival Curve: *M. marinum* Strains in Goldfish

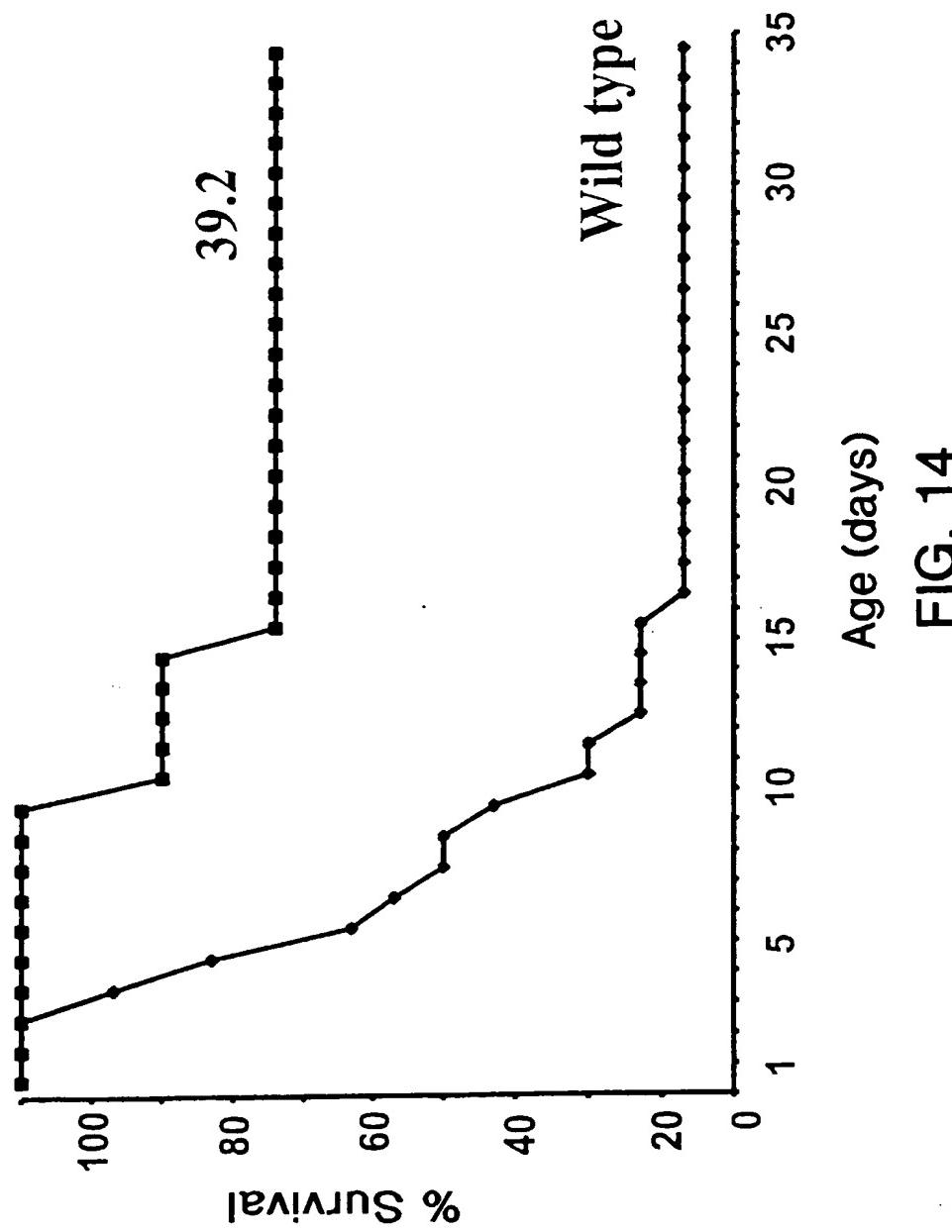


FIG. 14

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Survival Curve: *M. marinum* Strains in Goldfish

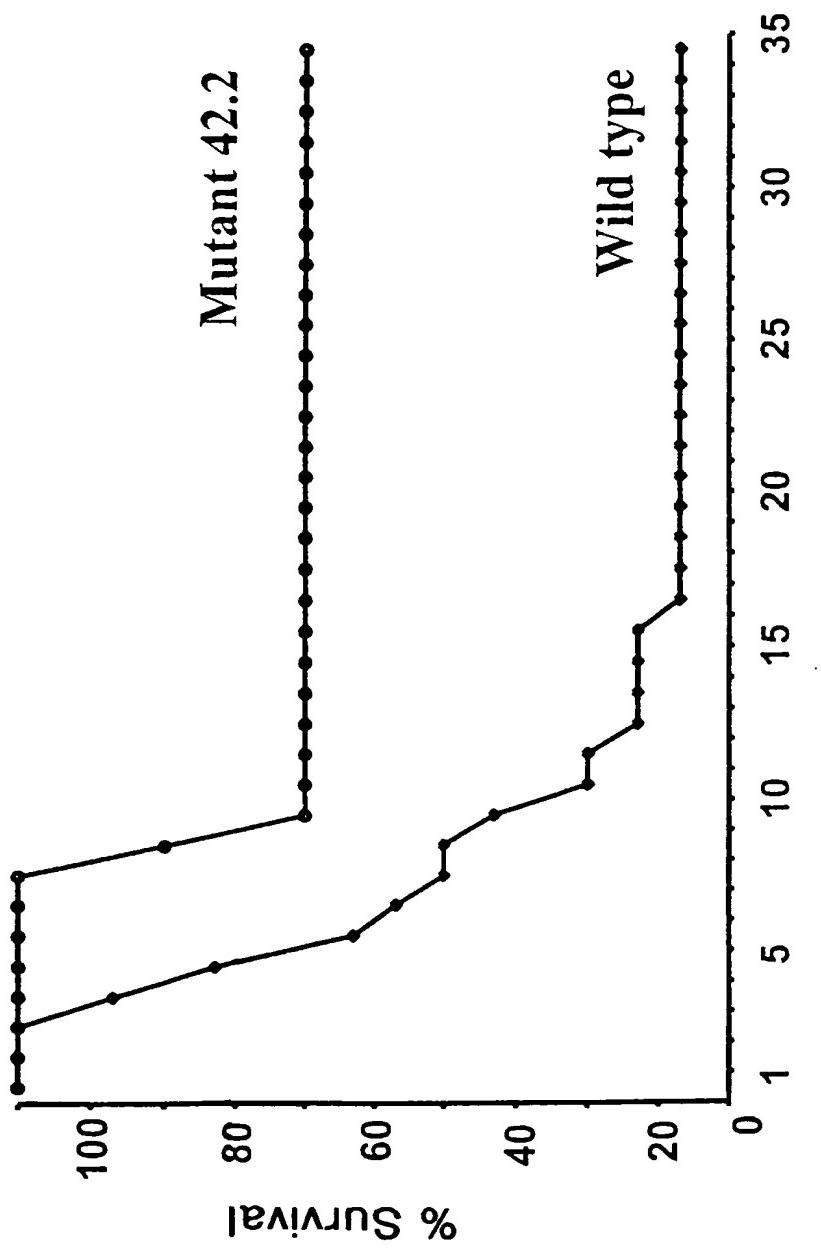


FIG. 15